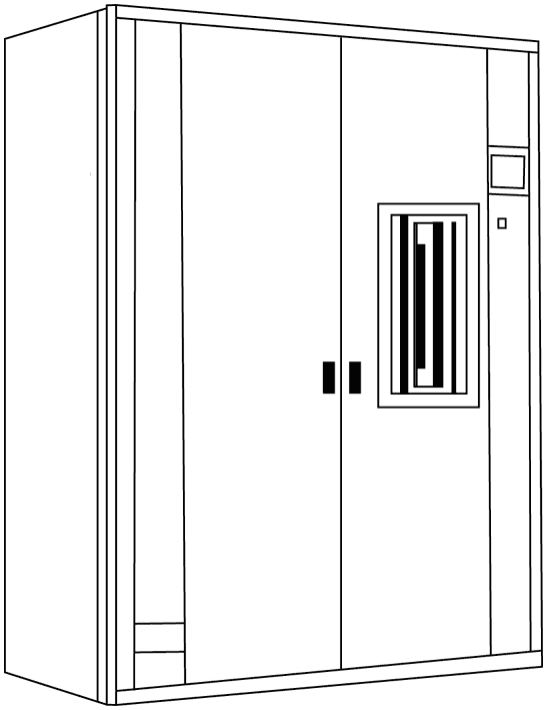
Overview



HP StorageWorks ESL9595L1 Tape Library

Models

HP StorageWorks ESL9595L1 Tape Library

The HP StorageWorks ESL9595L1 Tape Library comes with up to 16 LTO Ultrium 230 tape drives (number of drives determined by SKU chosen) and has three models with 400, 500 and 595 slots respectively.

ESL9595L1, 400 slot, 2 LTO Ultrium 230 Drives, Enterprise Library	301929-B22
ESL9595L1, 400 slot, 16 LTO Ultrium 230 Drives, Enterprise Library	301929-B28
ESL9595L1, 500 slot, 2 LTO Ultrium 230 Drives, Enterprise Library	301931-B22
ESL9595L1, 500 slot, 16 LTO Ultrium 230 Drives, Enterprise Library	301931-B28
ESL9595L1, 595 slot, 2 LTO Ultrium 230 Drives, Enterprise Library	301932-B22
ESL9595L1, 595 slot, 16 LTO Ultrium 230 Drives, Enterprise Library	301932-B28

The ESL9595L1 comes as either a 400, 500 or 595 slot library system configured with the associated number of drives, installation and user's manual, one-piece LTO Ultrium media, a copy of the Hewlett-Packard Storage Management Solutions CD. Customers are required to also purchase the necessary number of host bus adapters, SCSI cables, LTO Ultrium media, country specific power cords (pair) and applications software licenses in order to complete the library solution.

Due to the size and weight of the unit, a pre-sales site survey is required. The pre- sales site survey document is on http://h18000.www1.hp.com/support/techpubs/installation_guides/146587-001.html.

NOTE: This Web site is available in English only.

NOTE: The ESL9595L1 is three inches wider than the ESL9326.

Installation services can be ordered separately on Hewlett-Packard Services as part of each library order (requires scheduling with local Hewlett-Packard Services provider).

NOTE: Does not include special site work, which may be required as a result of not meeting minimum site survey requirements.

Product Highlights

The Ultimate in High-Capacity Unattended Backup and Restore

The HP StorageWorks tape libraryESL9595L1 provides the ultimate in high-capacity unattended backup and restore for customers with large server pools serviced by network attached storage devices or storage area networks. The consolidation of the enterprise's data into a single shared storage device requires that these devices provide both high capacity and high performance. With the consolidation of backup data into a single device also comes the increased need for redundancy and high availability. The ESL9595L1 can provide years of fully automated operation for backup, save and restore, and hierarchical storage management of critical data when coupled with a variety of qualified industry standard backup application solutions. With 400/500/595 slots and up to 16 Hewlett-Packard LTO Ultrium 230 drives, the ESL9595L1 offers up to 59.5 TB of native data storage and native transfer rates up to 864 GB/hr.

The ESL9000 Enterprise Library Family

The tape libraryESL9595L1 is part of the Hewlett-Packard ESL9000 class enterprise library family. With its high availability feature set, the ESL9000 family provides for maximum uptime. Based on PCI backplane architecture, the ESL9000 series libraries also provide a simple upgrade path for future "plug-in" feature upgrades.

High Availability

As data becomes more and more mission critical and downtime becomes more costly to the enterprise, customers are requiring high availability consolidated storage solutions which offer hot swappable components and redundancies of key operating sub-systems (tape drives, controllers, power supplies). With redundant power distribution, power supplies, and cooling fans, coupled with "hot pluggable" drive carriers, power supplies and cooling fan modules, the ESL9595L1 offers the best in high availability for continuous operation.

Hot-Pluggable Drives

The ESL9595L1 uses "hot pluggable" drive carriers, allowing drives replacement and additional drives to be added for capacity expansion without interrupting backup and restore functions. These hot pluggable drive trays allow for easy scalability of performance, as well as provide an easy upgrade path towards future drive technologies.
NOTE: The ESL9595L1 accepts only library ready drives specifically modified for use in the ESL9000 series libraries.

Proven Reliability

Using LTO Ultrium 230 tape drives, and proven library robotics with a rating of **2,000,000** load/unload cycles, the ESL9595L1 provides the necessary high reliability.

LTO Ultrium Technology

LTO Ultrium tape technology uses a "best of breed" technology approach, taking the best features from other tape technologies and combining them into a single new technology. Designed for the demanding environment, Ultrium ESL driveshave a proven mean time between failure (MTBF) rating of 250,000 hours at a 100 percent duty cycle, making the LTO Ultrium a truly enterprise class tape drive. The Linear Tape Open (LTO) format is an open standard. Data written on HP StorageWorks Ultrium1 tape drives can be interchanged directly with other Ultrium 1 tape drives from other vendors.

Manageability

The ESL9595L1 library configurations are fully supported through HP Insight Manager, providing information to administrators for both robotic, tape status changes, and fault status of redundant components (high availability fault status requires use of Insight Manager v7.0. Hewlett-Packard TSMC (tape storage management console) software provides diagnostics and easy firmware upgrade capabilities. Other data and automation manageability features, including multi-host direct connectivity, are provided via specific third-party applications software packages.

Multi-unit Scalability

The ESL9595L1 has the capability for multi-unit scalability*, up to four libraries can be scaled together in a "virtual library" using Passthrough kits to provide a maximum of 64 drives and 2278 cartridges.
*Multi-unit scalability not available at launch on 9/17/02.

O/S Support

Please refer to the OS/Application Compatibility matrix.

Product Highlights

Server Support	**HP ProLiant Servers**	ProLiant DL760	DL380/G2
		ProLiant ML750	ML370/G2
		ProLiant DL580/G2	ML350
		ProLiant ML 570	ML330G2
		ML530/G2	
	HP-UX Servers	Superdome	rp2450/2470 series (A class)
		rp8400 series	K class series
		rp7400 series (N class)	D Class series
		rp5400 series (L Class)	
	HP NetServer	HP lxr8500	HP lh3000
		HP lh6000	HP lc2000r
		HP lh6000r	HP lp2000r
		HP lt6000r	HP lp1000r
		HP tc4100	HP e200
		HP tc3100	HP e800

SCSI Controllers Supported	**HP ProLiant Adapters**	66MHz Ultra3 LVD, dual channel controller	129803-B21
		Ultra3 LVD, single channel controller	154457-B21
	HP-UX Servers	U2 LVD single port	A5149A
		U2 LVD dual port	A5150A
		U3 LVD single port	A6828A
		U3 LVD dual port	A6829A
		LVD single port	A4999A
	HP NetServer	Adaptec AHA 29160	
		Adaptec AHA 39160	

Fibre Channel Controllers	**HP ProLiant Adapters**	FCA-2101 HBA (lp952)	
		KGPSA-CB HBA (NT lp8000)	
	HP-UX Servers	FC	A6684A
		FC	A6685A
		1G FC	A5158A
		2G FC	A6795A
	HP NetServer	Emulex LP8000-F1	
		Emulex LP9000	
		Qlogic QLA-2200F	

Fibre Channel Routers	Network Storage Router e2400 (FC embedded router for ESL9000 libraries)
	Network Storage Router m2402 (supported on HP EBS SAN solutions only)

Product Highlights

Application Support

Hewlett-Packard supports the following backup/restoration applications software packages:

Under direct SCSI attach and FC SANs

HP OpenView Storage Data Protector 5.0
HP OpenView Omniback II 4.1
VERITAS Backup Exec 8.6
Computer Associates BrightStor ARCserve2000
Legato NetWorker v6.1.2
VERITAS NetBackup v3.4.3, v4.5
For the latest updated compatibility matrix for ISV backup software supported go to:
http://h18000.www1.hp.com/products/storageworks/tapecompatibility.html
NOTE: This Web site is available in English only.

Automation and Network Utilities

HP tape storage management console (v2.3 for NT® 2000, 2.0 for NetWare)
MRU (media robot utility) v1.4 (Windows® NT/2000 only)
HP library and tape tools v2.9

Product Highlights

Device/ISV/OS Matrix LTO Ultrium Models	Windows NT 4.0 SP6a	Windows 2000 SP2	NetWare 5.1 SP3	Solaris v7	Solaris v8	HPUX 11.0	HPUX 11.i	Linux RH 7.2	AIX 4.3.3
Direct SCSI Attach									
VERITAS NetBackup 4.5	X	X							
VERITAS NetBackup 3.4.3	X	X							
Legato NetWorker 6.1.2	X	X					X		
VERITAS Backup Exec 8.6	X	X			X	X			
CA BrightStor ARCServe 2000	X	X							
HP Data Protector 5.0	X	X	X	X	X	X	X	X	X
HP Omniback II 4.1	X	X	X	X	X	X	X	X	X
HP/EBS SAN									
VERITAS NetBackup 4.5	X	X				X	X		
VERITAS NetBackup 3.4.3	X	X				X	X		
Legato NetWorker 6.1.2	X	X				X	X		
VERITAS Backup Exec 8.6	X	X							
CA BrightStor ARCserve 2000	X	X							
HP (Surestore) SAN									
VERITAS NetBackup 4.5	X	X		X	X	X	X		X
VERITAS NetBackup 3.4.3	X	X		X	X	X	X		X
Legato NetWorker 6.1.2	X	X				X	X		
VERITAS Backup Exec 8.6	X	X							
CA BrightStor ARCServe 2000	X	X							
HP Data Protector 5.0	X	X	X	X	X	X	X		
HP Omniback II 4.1	X	X	X	X	X	X	X		
X = supported									

Hewlett-Packard Installation, HP Care Pack, and CATS Services

Hewlett-Packard Global Services provides a one-year, limited warranty, fully supported by a worldwide network of resellers and service providers toll-free 7 x 24 hardware technical phone support for the duration of the warranty. In addition, available service offerings include a full range of HP Care Pack CATSpackaged hardware and software services:

- Installation and start up
- Extended coverage hours and enhanced response times
- System management and performance services

Hewlett-Packard Service and Warranty Support

Additional Warranty protection and/or Hewlett-Packard Installation packages can be purchased for the ESL9595L1 library products:

Software Product Services

- Stand-alone telephone support
- Rights to a new license
- Media and documentation updates

Hardware Product Services

- Installation services
- On-site maintenance (includes warranty support)
- Response time upgrades during the warranty period
- Post-warranty coverage

For additional hardware installation and maintenance information please refer to the URLs listed below:
http://h18005.www1.hp.com/services/carepaq/us/hardware/cp_storage.html
http://h18005.www1.hp.com/services/carepaq/us/install/cp_storage.html

Warranty Upgrade Options

- Response - Upgrade on-site response from next business day to same day 4-hours
- Coverage - Extend hours of coverage from 5 days x 9 hours to 7 days x 24 hours
- Duration - Select duration of coverage for a period of 1 or 3 years

HP Care Pack Services

Additional Warranty protection and/or Hewlett-Packard Installation packages can be purchased for the ESL9595L1 LTO Ultrium 1 library products:

Description	2-5-2 PN	6-3 PN
HP Care Pack		
1Y 9X5/4HR ESL 0-8 DR 1Y WAR	FM-E74HR-12	309164-002
3Y 9X5/4HR ESL 0-8 DR 1Y WAR	FM-E74HR-36	309165-002
5Y 9X5/4HR ESL 0-8 DR 1Y WAR	FM-E74HR-60	309166-002
1Y 24X7/4HR ESL 0-8 DR 1Y WAR	FM-E7724-12	309167-002
3Y 24X7/4HR ESL 0-8 DR 1Y WAR	FM-E7724-36	309168-002
5Y 24X7/4HR ESL 0-8 DR 1Y WAR	FM-E7724-60	309169-002
3Y 9X5/ND ESL 0-8 DR 1Y WAR	FM-E7XHW-36	309170-002
5Y 9X5/ND ESL 0-8 DR 1Y WAR	FM-E7XHW-60	309171-002
INSTALL ESL 0-8 Drives 1Y WAR	FM-E7INS-IN	309172-002
1Y 9X5/4HR ESL 9-16 DR 1Y WAR	FM-E84HR-12	309173-002
3Y 9X5/4HR ESL 9-16 DR 1Y WAR	FM-E84HR-36	309174-002
5Y 9X5/4HR ESL 9-16 DR 1Y WAR	FM-E84HR-60	309175-002
1Y 24X7/4HR ESL 9-16DR 1Y WAR	FM-E8724-12	309176-002
3Y 24X7/4HR ESL 9-16DR 1Y WAR	FM-E8724-36	309177-002
5Y 24X7/4HR ESL 9-16DR 1Y WAR	FM-E8724-60	309178-002
3Y 9X5/ND ESL 9-16 DR 1Y WAR	FM-E8XHW-36	309179-002
5Y 9X5/ND ESL 9-16 DR 1Y WAR	FM-E8XHW-60	309180-002
INSTALL, ESL 9-16 DR 1Y WAR	FM-E8INS-IN	309181-002

CATS Services

	Part Number
1Yr onsite support, 4 hr response time, LTU	H4402A
1Yr onsite support, 4 hr response time, LTU, PIA	H4403A
1Yr onsite support, 4 hr response time, 24x7, LTU	H4404A
1Yr onsite support, 4 hr response time, 24x7, LTU, PIA	H4405A
3 Yr onsite support, next day response, LTU	H4400Y
3Yr onsite support, next day response, LTU	H4401Y
3 Yr onsite support, 4 hr response time LTU	H4402Y
3 Yr onsite support, 4 hr response time, LTU, PIA	H4403Y
3 Yr onsite support, 4 hr response time, 24x7, LTU	H4404Y
3 Yr onsite support, 4 hr response time, 24x7, LTU, PIA	H4405Y

Band 465 Services

Product Covered: ESL 0-8 Drives	*Part Number*
ESL9322L1 222 slot 2 drive LTO1	301927-B22
ESL9322L1 222 slot 8 drive LTO1	301927-B28
ESL9322L1 322 slot 2 drive LTO1	301928-B22
ESL9322L1 322 slot 8 drive LTO1	301928-B28
ESL9595L1 400 slot 2 drive LTO1	301929-B22
ESL9595L1 500 slot 2 drive LTO1	301931-B22
ESL9595L1 595 slot 2 drive LTO 1	301932-B22

HP Installation and HP Care Pack and CATS Services

Band 466 Services	*Product Covered: ESL 9-16 Drives*	*Part Number*
	ESL9595L1 400 slot 16 drive LTO 1	301929-B28
	ESL9595L1 500 slot 16 drive LTO 1	301931-B28
	ESL9595L1 595 slot 16 drive LTO 1	301932-B28

Installation Services

24x7, 4-Hour Response On-Site Coverage - 1 Year

NOTE: Certain restrictions and exclusions apply. Consult the Hewlett-Packard Customer Support Center for details.

- HP Care Pack and CATS is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.
- HP Care Pack and CATS is not available for less than the products warranty duration.
- HP Care Pack and CATS is available for sale anytime during the warranty period for most products, but the commencement date will be the same as the Warranty Start Date (delivery date to end user customer). Proof of purchase may be required.
- HP Care Pack and CATS services are prepaid.

For additional HP Care Pack (hardware & software) information, as well as orderable part numbers, please refer to the URL listed below:
http://h18005.www1.hp.com/services/carepaq/index.html

Related Options

	Description	UPC Code	Part Number
ESL9595L1 Library System	ESL9595L1 400 slot 2 LTO Ultrium 230 drives Enterprise Library	613326562789	301929-B22
	ESL9595L1 400 slot 16 LTO Ultrium 230 drives Enterprise Library	613326562826	301929-B28
	ESL9595L1 500 slot 2 LTO Ultrium 230 drives Enterprise Library	613326562864	301931-B22
	ESL9595L1 500 slot 16 LTO Ultrium 230 drives Enterprise Library	613326562888	301931-B28
	ESL9595L1 595 slot 2 LTO Ultrium 230 drives Enterprise Library	613326562901	301932-B22
	ESL9595L1 595 slot 16 LTO Ultrium 230 drives Enterprise Library	613326562925	301932-B28

Supplied with each Library Unit

Library Unit (pre-configured with 2 or 16 drives)
Documentation Kit
Documentation CD including translations
Users Guide
Unpacking and Installation Guide
Pre-Installation Site Survey
Diagnostic CD
Diagnostic Software Guide
Warranty Card
Safety Card
Driver CD
(1) LTO Ultrium Media Cartridge
Bar Code Labels
(2) Keys
SCSI Terminators (1 per drive, installed)
Diagnostic Cable (for PC attach)

Supplied with each library

2 Line Cords (IEC 320 C19), US/Canada

Power Cord (Pair Required)	ESL9000 POWER CORDS 2X, US/CANADA/MEX* *(shipped with all units)	743172935649	146210-001
	ESL9000 POWER CORDS 2X, SE ASIA/INDIA	743172935625	146210-AR1
	ESL9000 POWER CORDS 2X, CENTRAL EUROPE	743172935632	146210-021
	ESL9000 POWER CORDS 2X, AUS/CHINA/NZL	743172935670	146210-011
	ESL9000 POWER CORDS 2X, SWITZERLAND	743172935656	146210-111
	ESL9000 POWER CORDS 2X, UK/HONG KONG	743172935663	146210-031
	ESL9000 POWER CORDS 2X, ITALY	743172935687	146210-061
	ESL9000 POWER CORDS 2X, DENMARK	743172935694	146210-081
	ESL9000 POWER CORDS 2X, JAPAN	743172935700	146210-291

NOTE: Order Local power cords separately.

Related Options

Drive, Capacity, and Memory Upgrade Kits	ESL9000 field upgrade LTO Ultrium 230 LVD drive in hot plug canister	613326562826	301930-B21
	ESL9595L1 400 to 500 Slot Upgrade	613326380222	274674-B21
	ESL9595L1 500 to 595 Slot Upgrade	613326380239	274674-B22
	ESL9595L1 400 to 595 Slot Upgrade	613326408926	274674-B23
	NOTE: *Serial number of your existing library is required when ordering these capacity upgrade SKUs, please enter the serial number in the comments section of the purchase order, and inform your Secondary Storage Product Manager.		
Media and Bar Code Labels	HP LTO Ultrium data cartridge		C7971A
	HP LTO Ultrium universal cleaning cartridge		C7978A
	HP Ultrium Barcode labels, 100 pack		C7970B
SCSI Cables	Wide/Wide SCSI cable, 5 m	743172633910	328215-001
	Wide/Wide SCSI cable, 10 m*	743172633927	328215-002
	SCSI Cable, VHDCI/Wide, 6 ft	743172660831	341176-B21
	Check the cable-adapter matrix for tape libraries on: ftp://ftp.compaq.com/pub/products/storageworks/tape-and-optical-storage/adapter-cable-matrix.pdf NOTE: This Web site is available in English only. *Requires LVD extender 221249-B21		
SCSI Host Bus Adapters	*ProLiant Controllers*		
	64-bit 66 MHz PCI Dual Channel Wide Ultra3 SCSI adapter	743172876379	129803-B21
	Ultra3 LVD, single channel controller	743172991447	154457-B21
	HP-UX server adapters		
	U2 LVD single port		A5149A
	U2 LVD dual port		A5150A
	U3 LVD single port		A6828A
	U3 LVD dual port		A6829A
	HP NetServer adapters		
	Adaptec AHA 29160		C7474A
	Adaptec AHA 39160		P3413A
Fibre Host Bus Adapters	*HP ProLiant Adapters*		
	fca2101 HBA (lp952)		245299-B21
	KGPSA-CB HBA (NT lp8000)		176479-B21
	HP-UX Server Adapters		
	FC		A6685A
	1G FC		A5158A
	2G FC		A6795A
	FC		A6684A

Related Options

Network Storage Router (required for SAN configuration)	**Network Storage Router** m2402 (2FC X 4 LVD SCSI)		262653-B21
	Embedded Data Router, ESL 9000embedded fibre option e2400 - Base 2 FC X 4 LVD SCSI ports (Includes card cage for installation of embedded router which is required for configuration) (Includes two router cards each with 1 FC X 2 LVD SCSI ports, 4 VHDCI-WIDE SCSI cables, user guide CD, and the ESL9000 cPCI card cage) It is recommended that the installation HP Care Pack be ordered with this SKU.		262665-B21
	Embedded Data Router, ESL 9000embedded fibre option e2400 - Upgrade 2 FC X 4 LVD SCSI ports (Includes: two 1FC x 2LVD SCSI router cards, four VHDCI-WIDE SCSI cables, User Guide CD.) This SKU does not include a card cage; it is an upgrade SKU and requires 262665-B21 to be configured first, when configured it increases the number of SCSI ports available to connect drives in an ESL9000 library to the SAN, to a total of eight). It is recommended that the installation HP Care Pack be ordered with this SKU.		262664-B21
LVD Extender Kit	LVD Extender kit (Required for HBA to Library SCSI cable lengths exceeding 10 m)	720591597658	221249-B21
ESL9000 magazine	ESL9000 UNIVERSAL LOAD PORT magazine (two 4-slot fixed magazines)* *maximum of one pair per library	613326572603	302254-B21
HP Openview Omniback Software	HP OpenView Omniback II 4.1		
	Starter Packs		
	Cell Manager		B6961AA/ B6951AA
	Required once as starter pack; includes license-to-use, unlimited number of disk agents and media agents, one drive extension, libraries with up to 60 slots, CD-ROM media, manuals, and more; for Windows NT, 2000, XP/HP-UX		
	Drive Extensions		
	Drive License		B963AA
	License-to-use for one concurrently used backup drive; for Windows NT, 2000, XP/Novell Netware/Linux		
	Drive License		B6953AA
	License-to-use for one concurrently used backup drive; for UNIX®, NAS, SAN		
	For the most up-to-date information, visit: http://openview.hp.com/products/omniback/specifications/ NOTE: This Web site is available in English only.		

Related Options

Data Protection Suites for Backup and Restores

CA BrightStor ARCserve

Phan Kit, CA ARCserve	283915-B21
DP Suite, single server	281576-B21
DP Suite, SAN standard	281583-B21
DP Suite, SAN advanced	281586-B21
DP Suite, Network	281581-B21

Additional CA BrightStor ARCserve Suite Descriptions

Phan Kit, CA ARCserve - Media Kit that contains live trial software

DP Suite, single server - Designed for backing up a single server, with no server clients, using a single internal or external tape drive.

DP Suite, SAN standard - Entry level SAN kit that contains:
ISV application software for six servers on the SAN
Two server clients for backing up over the LAN
Each SAN server has a choice of a database agent or open file systems option
Support for up to eight shared automated, tape drives

DP Suite, SAN advanced - Data center SAN kit that contains:
ISV application software for fourteen servers on the SAN
Two server clients for backing up over the LAN
Each SAN server has a choice of a database agent or open file systems option
Support of up to sixteen shared, automated tape drives

DP Suite, Network - Designed for backing up a single server and server clients over the network using a tape drive, an autoloader or business class automation. Includes choice of one database agent or open file systems option.

VERITAS Backup Exec

Phan Kit, VERITAS Backup Exec	283914-B21
DP Suite, single server	281578-B21
DP Suite, SAN standard	281584-B21
DP Suite, SAN advanced	281587-B21
DP Suite, Network	281580-B21

Additional VERITAS Backup Exec Suite Descriptions

Phan Kit, VERITAS Backup Exec - Media Kit that contains live trial software

DP Suite, single server - Designed for backing up a single server, with no server clients, using a single internal or external tape drive.

DP Suite, SAN standard - Entry level SAN kit that contains:
ISV application software for six servers on the SAN
Two server clients for backing up over the LAN
Each SAN server has a choice of a database agent or open file systems option
Support for up to eight shared automated, tape drives

DP Suite, SAN advanced - Data center SAN kit that contains:
ISV application software for fourteen servers on the SAN
Two server clients for backing up over the LAN
Each SAN server has a choice of a database agent or open file systems option
Support of up to sixteen shared, automated tape drives

DP Suite, Network - Designed for backing up a single server and server clients over the network using a tape drive, an autoloader or business class automation. Includes choice of one database agent or open file systems option.

Related Options

Legato NetWorker	
Phan Kit, Legato NetWorker	293599-B21
DP Suite, single server edition of Legato NetWorker D1	293600-B21
DP Suite, EL SAN edition of Legato NetWorker S1	293602-B21
DP Suite, Corp SAN edition of Legato NetWorker S2	293603-B21
DP Suite, Network edition of Legato NetWorker D2	293601-B21

Additional Legato NetWorker Suite Descriptions

Phan Kit, Legato NetWorker - Media Kit that contains live trial software

DP Suite, single server edition of Legato NetWorker D1 - Designed for backing up a single server, with no server clients, using a single internal or external tape drive.

DP Suite, EL SAN edition of Legato NetWorker S1 - Entry level SAN kit that contains:
ISV application software for six servers on the SAN
Two server clients for backing up over the LAN
Each SAN server has a choice of a database agent or open file systems option
Support for up to eight shared automated, tape drives

DP Suite, Corp SAN edition of Legato NetWorker S2 - Data center SAN kit that contains:
ISV application software for fourteen servers on the SAN
Two server clients for backing up over the LAN
Each SAN server has a choice of a database agent or open file systems option
Support of up to sixteen shared, automated tape drives

DP Suite, Network edition of Legato NetWorker D2 - Designed for backing up a single server and server clients over the network using a tape drive, an autoloader or business class automation. Includes choice of one database agent or open file systems option.

Technical Specifications

SCSI Identification	Product ID	ESL9000 Series	
	Vendor ID	HP	
Control Panel	Library and drive status		
	Move tape cartridges		
	Load/unload tape drives		
	Maintenance (drive cleaning, diagnostics)		
	Library configuration		
	Statistics		
Robotic SCSI Interface	Ultra3 SCSI LVD, 68HD Interconnect External cable length between library and HBA limited to 9 m when using more than one device per HBA. Can extend up to 22 m when using exactly one device per HBA (point to point SCSI termination.)		
Form Factor	Free Standing		
Dimensions		**Unit**	**Packaged**
	Height	75 in (190.5 cm)	80 in (203.2 cm)
	Width	60 in (152.4 cm)	71 in (180.3 cm)
	Depth	29 in (73.7 cm)	48 in (121.9 cm)
Unit Weight	Without data cartridges, 0 drives	1,444 lb (655 kg)	
	LTO Ultrium 230 drive in Hot Plug canister	13.5 lb (6.12 kg) per drive.	
	Without data cartridges, 2 drives	1471 lb (667.24 kg)	1654 lb (750 kg)
	Without data cartridges, 16 drives	1660 lb (752.92 kg)	1822 lb (826 kg)
Performance (native)	**Minimum configuration**	2 Hewlett-Packard LTO Ultrium 230 drives, 400/500/595 slots Native transfer rates up to 108GB/hr	
	Maximum configuration	16 Hewlett-Packard LTO Ultrium 230 drives, 400/500/595 cartridge slots Native backup performance up to 864 GB/hr	
Storage Capacity	Supports 400/500/595 LTO Ultrium 230 cartridges for native capacity of:		
	400 slots - 40 TB (80 TB at 2:1 compression)		
	500 slots - 50 TB (100 TB at 2:1 compression)		
	595 slots - 59.5 TB (119 TB at 2:1 compression)		
Input/Output Port	Two 4-slot fixed magazines		
Initialization (cartridge inventory) time	< 7 minutes		
Cartridge Swap Time	33 seconds average		
Cartridge Swap Rate	>135 swap/hour		
Electrical Specifications	**AC Voltage**	Auto-range to domestic and international AC voltages	
	AC Voltage Range	90 to 132 VAC or 180 to 264 VAC, single phase	
	Nominal	100 to 120 VAC or 220 to 240 VAC	
	Line Frequency Range	47 to 63Hz	
	AC Receptacle	IEC-320 C19 Type 100-120V/200-240V, 50/60 Hz, 20A/16A (5-20P plug for U.S. and Canada)	
	Power Consumption	VA Maximum 1,600W 5500 BTU/hr or 1400 Kcal/hr	
Acoustic Noise	**Noise Power Emission Level**		
	Idle	7.8 bels	
	Operating	8.1 bels	
Reliability (Library Only)	**MTBF**	250,000 hours	
	MSBF	2,000,000 load/unload cycles	
Regulatory Compliance Regulatory ID Number ED	**Safety**	UL60950. cUL60950, IEC60950. IEC60825-1 (Laser Class 1) EN60950, Nemko, CE Mark, TUV/VDE	

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	Emissions	FCC Part 15 Class A, CE Marking directive (93/68/EEC) (Class A), CISPR Publication 22 Class A, ICES-003 Class A, VCCI Class 1, C-Tick SMA AZ/NZS 3548 Class A BCIQ EN6100-3-2, EN50082-1:1992, EN55022:1994, EMC Directive [89/336/EEC], Low Voltage Directive [73/23/EEC]
Warranty	One year parts exchange, one year on-site next day service Additional Warranty protection can be purchased for all ESL9595L1 LTO Ultrium 230 library products at the following URL: http://h18006.www1.hp.com/products/storageworks/warranty.html NOTE: This Web site is available in English only.	

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